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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/623,592	07/22/2003	Cheng-Hsien Chou	ВНТ-3226-39	5852
75	590 11/30/2006		EXAMI	INER
TROXELL LAW OFFICE PLLC			CHANG, RICK KILTAE	
SUITE 1404 5205 LEESBUI	RG PIKE		ART UNIT PAPER NUMBER	
FALLS CHURCH, VA 22041			3726	
			DATE MAIL ED: 11/30/2006	

Please find below and/or attached an Office communication concerning this application or proceeding.

MI

	Application No.	Applicant(s)				
	10/623,592	CHOU ET AL.				
Office Action Summary	Examiner	Art Unit				
	Rick K. Chang	3729				
The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply						
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication. - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).						
Status						
1) Responsive to communication(s) filed on 06 Se	Responsive to communication(s) filed on <u>06 September 2006</u> .					
	action is non-final.					
3) Since this application is in condition for allowan						
closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.						
Disposition of Claims						
4)⊠ Claim(s) <u>2-13</u> is/are pending in the application.						
4a) Of the above claim(s) <u>7-12</u> is/are withdrawn from consideration.						
5) Claim(s) is/are allowed.						
6)⊠ Claim(s) <u>2-6 and 13</u> is/are rejected.	6) Claim(s) 2-6 and 13 is/are rejected.					
7) Claim(s) is/are objected to.						
8) Claim(s) are subject to restriction and/or	election requirement.					
Application Papers						
9) The specification is objected to by the Examiner	,					
10) The drawing(s) filed on is/are: a) accepted or b) objected to by the Examiner.						
	Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).					
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).						
11)☐ The oath or declaration is objected to by the Exa	11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.					
Priority under 35 U.S.C. § 119						
 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No. 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 						
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Attachment(s)						
Notice of References Cited (PTO-892) Notice of Draftsperson's Patent Drawing Review (PTO-948) Interview Summary (PTO-413) Paper No(s)/Mail Date Notice of Informal Patent Application Paper No(s)/Mail Date Other:						
Patent and Trademark Office						

DETAILED ACTION

Claim Rejections - 35 USC § 102

1. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

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- (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.
- 2. Claims 2, 6 and 13 are rejected under 35 U.S.C. 102(b) as being anticipated by Peterson et al (US 4,882,454).

Peterson discloses a sequential build-up of layers (col. 3, lines 61-62) to form a resin layer as a first dielectric layer of inner circuit layers (101 and 105 formed close to 102); forming a circuit layer on the resin layer (101 and 105 formed above); forming a second dielectric layer (col. 3, lines 22-25); col. 2, line 36 discloses epoxy; col. 2, lines 31-35 discloses aramid fiber material.

Claim Rejections - 35 USC § 103

- 3. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 4. Claim 3 is rejected under 35 U.S.C. 103(a) as being unpatentable over Peterson et al (US 4,882,454) in view of Nakatani et al (US 6,108,903).

Peterson fails to disclose a liquid epoxy.

Nakatani disclose in col. 10, lines 13-14 a liquid epoxy.

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It would have been obvious to one of ordinary skill in the art at the time the invention was made to modify Peterson by providing a liquid epoxy, as taught by Nakatani, for the purpose of reducing the volatile constituent.

5. Claim 4 is rejected under 35 U.S.C. 103(a) as being unpatentable over Peterson et al (US 4,882,454) in view of Cutting et al (US 5,6338,597).

Peterson fails to disclose dry film type epoxy.

Cutting discloses dry film type epoxy (col. 3, line 56).

It would have been obvious to one of ordinary skill in the art at the time the invention was made to modify Peterson by providing dry film type epoxy, as taught by Cutting, for the purpose of providing a good dielectric property.

6. Claim 5 are rejected under 35 U.S.C. 103(a) as being unpatentable over Peterson et al (US 4,882,454) in view of Kiyota et al (US 5,263,248).

Peterson fails to disclose a resin-impregnated fiberglass fabric.

Kiyota discloses a resin-impregnated fiberglass fabric (col. 3, line 53).

It would have been obvious to one of ordinary skill in the art at the time the invention was made to modify Peterson by providing a resin-impregnated fiberglass fabric, as taught by Kiyota, for the purpose of manufacturing a rigid substrate.

Response to Arguments

7. Applicant's arguments with respect to claims 2-6 and 13 have been considered but are most in view of the new ground(s) of rejection.

Interviews After Final

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8. Applicant note that an interview after a final rejection must be submitted briefly in writing the intended purpose and content of the interview (the agenda of the interview must be in writing). Upon review of the agenda, the Examiner may grant the interview if the examiner is convinced that disposal or clarification for appeal may be accomplished with only nominal further consideration. Interviews merely to restate arguments of record or to discuss new limitations will be denied. See MPEP 714.13 and 713.09.

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Conclusion

- 9. Please provide reference numerals (either in parentheses next to the claimed limitation or in a table format with one column listing the claimed limitation and another column listing corresponding reference numerals in the remark section of the response to the Office Action) to all the claimed limitations as well as support in the disclosure for better clarity (optional). Applicants are duly reminded that a full and proper response to this Office Action that includes any amendment to the claims and specification of the application as originally filed requires that the applicant point out the support for any amendment made to the disclosure, including the claims. See 37 CFR 1.111 and MPEP 2163.06.
- 10. Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE

MONTHS from the mailing date of this action. In the event a first reply is filed within TWO

MONTHS of the mailing date of this final action and the advisory action is not mailed until after

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the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the date of this final action.

11. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Rick K. Chang whose telephone number is (571) 272-4564. The examiner can normally be reached on 5:30 AM to 1:30 PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, David P. Bryant can be reached on (571) 272-4526. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

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RICHARD CHANG
RIMARY EXAMINER

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RC November 21, 2006